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Autore	Subudhi Badri Narayan
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Altri autori (Persone)	RoutRanjeet Kumar SengarBrajendra Singh
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Nota di contenuto	-- Facial Action Unit Analysis for Indian Classical Dance Forms: A Micro-Emotion Sequencing Framework Approach. -- Semi-Supervised Approach for Disease Severity. -- A Vision-Guided Autonomous Weeding Robot using Image-Based Weed Classification for Sustainable Agriculture. -- Towards Realistic Synthetic Palmprint Data: A Smartphone Video Dataset with Diverse Variations. -- HybridMorph: Towards usage of synthetic with real data for medical MR images registration. -- Glaucoma Detection in Retinal Images via Attention-

Based Hybrid Deep Model with Fibonacci-Inspired Ring Features. -- A comparative analysis of deep learning models for crop price forecasting. -- Whirling Triangle-Based Geometric and Texture Feature Extraction with Attention-Driven Hybrid Models for Multiclass Osteoporosis Classification from Knee X-rays. -- Leveraging DeepLabV3+ with Explainable AI for Brain Tumor Segmentation in 2D MRI. -- Impact of Age and Gender on the Accuracy of Computational Model-Based Heart Disease Prediction. -- SAPxAI: Deep Features with Explainable Artificial Intelligence Techniques for Prediction of Saffron Adulteration. -- A Secure Collaborative Approach for Autism Spectrum Disorder Detection Using Decentralized Deep Learning. -- Precision Soil Monitoring via UAV-Captured RGB Imaging and Spectral Band Regression Using Deep Learning. -- Emotion Recognition with EEG Signals using Transformer-based Trainable Adjacency Matrix and Graph Convolutional Network. -- A Review on AI-Based Cognitive Systems for Digital Wellbeing. -- AI-Driven Dermatology: Enhancing Melanoma Detection with XAI and Deep Learning. -- Explainable Skin cancer Detection via Hybrid CNN and Adaptive Post-Hoc Explanations. -- Vegetation region localization for plant in field having specular reflection. -- Quantifying Plant Structural Complexity Using an Image-Based Structural Complexity Index (SCI). -- Enhancing UPI Transactions Fraud Detection with Machine Learning and Biometric Authentication. -- Detect Before Decay: Early Diagnosis of Dental Caries via Intraoral Scans. -- An Explainable Deep Learning Framework for Banana Leaf Disease Detection and Analysis. -- Explainability-Driven Multimodal Glioma Segmentation Using a Hybrid CNN-Transformer Architecture and IoU-Based Attribution Analysis. -- Graph-Based Classification of Lung Cancer Histopathology Using SimCLR Feature Extraction and Graph Attention Networks. -- Deep Liveness: Face Liveness Detection Using a Lightweight U-Net-Based Deep Architecture. -- Enhancing Latent Fingerprint Quality Assessment Using a Deep Learning Pipeline. -- A Proximal Approach to Image Deconvolution under Mixed Poisson-Gaussian Noise. -- Adversarial Representation Learning for Presentation Attack Detection on Face Recognition Systems. -- A Classifier for Spinal Tumors using Novel Data Augmentation. -- Brain Tumor Extraction using Adaptive Non convex and Superpixel Motion Detection. -- SRSegFormer: Joint Super-Resolution and Segmentation Framework for Fine-Scale Root Phenotyping. -- Robust Spatial Enhancement of ASL-MRI based on 3DFSRCNN Framework. -- Sign Language Translation Using Multi-Modal Transformer Network. -- Sensei: Assistive Real-Time Perception for Visually Impaired Users with Depth-Aware Object and Face Recognition. -- Stacked Ensemble Learning for Global Crop Yield Prediction: A Comparative Study of Machine Learning Techniques. -- Protein Methylation Site Prediction based on spatial feature of Amino Acids using SMOTE and Stratified Cross-Validation.

Sommario/riassunto

This two-set volume CCIS 2684 and CCIS 2685 constitutes the refereed proceedings of the 10th National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics, NCVPRIPG 2025 held in Jammu, India, during July 16–18, 2025. The 70 full papers presented in these volumes were carefully reviewed and selected from 266 submissions. The papers cover topics in Active and Real Time Vision, Industrial Vision Systems, Motion and Video Analysis, Hardware for Graphics, Image and Video Compression, Hardware for Vision and IP, Image and Video Retrieval, Visual Special Effects, Object Detection and Recognition, Speech and Audio Processing, Segmentation and Grouping, Document Understanding, Digital Heritage, Medical Image Analysis, Aerial and Satellite Image Analysis, Pattern Recognition,

